LED Wash Ultra Bright RGB

ORDERCODE 42454

SHOWELECTRONICS FOR PROFESSIONALS

Congratulations!
You have bought a great, innovative product from Showtec.
The Showtec LED Wash Ultra Bright RGB brings excitement to any venue. Whether you want simple plug-&-play action or a sophisticated DMX show, this product provides the effect you need.

You can rely on Showtec, for more excellent lighting products.
We design and manufacture professional light equipment for the entertainment industry.
New products are being launched regularly. We work hard to keep you, our customer, satisfied.
For more information: iwant@showtec.info

You can get some of the best quality, best priced products on the market from Showtec.
So next time, turn to Showtec for more great lighting equipment.
Always get the best -- with Showtec !

Thank you!

Showtec

Showtec LED Wash Ultra Bright RGB™ Product Guide

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WARNING

CAUTION!
Keep this device away from rain and moisture!

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

SAFETY INSTRUCTIONS

Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow the instructions of this manual

CAUTION! Be careful with your operations.
With a dangerous voltage you can suffer
a dangerous electric shock when touching the wires!

Before your initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

- Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never leave any cables lying around.
- Never look directly into the light source.
- Never use the device during thunderstorms, unplug the device immediately.
- Do not insert objects into air vents.
- Do not open the device and do not modify the device.
- Do not connect this device to a dimmerpack.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Do not switch the device on and off in short intervals, as this would reduce the system's life.
- Only use device indoor, avoid contact with water or other liquids.
- Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.
- Only operate the device after having familiarized with its functions.
- Avoid flames and do not put close to flammable liquids or gases.
- Always keep case closed while operating.
- Always allow free air space of at least 50 cm around the unit for ventilation.
- Always disconnect power from the mains, when device is not used or before cleaning! Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.
- Make sure that the device is not exposed to extreme heat, moisture or dust.

- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power-cord is never crimped or damaged. Check the device and the power-cord from time to time.
- Make sure that no side forces can impact on the truss system.
- The cable insert or the female part in the device must never be strained. There must always be sufficient cable to the device. Otherwise, the cable may be damaged which may lead to deadly electrical shocks.
- If the external cable is damaged, it has to be replaced by a qualified technician.
- If device is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your Showtec device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Showtec dealer for service.
- For adult use only. The device must be installed out of the reach of children. Never leave the unit running unattended.
- The user is responsible for correct positioning and operating of the LED Wash Ultra Bright RGB. The manufacturer will not accept liability for damages caused by the misuse or incorrect installation of this device.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- For replacement use fuses of same type and rating only.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.

CAUTION ! EYEDAMAGES !.
Avoid looking directly into the light source.
(meant especially for epileptics) !

OPERATING DETERMINATIONS

This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.

The minimum distance between light-output and the illuminated surface must be more than 0,5 meters.

The maximum ambient temperature t_a = 45°C must never be exceeded.

The relative humidity must not exceed 50 % with an ambient temperature of 45° C.

If this device is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.
Any other operation may lead to dangers like short-circuit, burns, electric shock, lamp explosion, crash etc.

You endanger your own safety and the safety of others!

Rigging

Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

Do not attempt the installation yourself !
Always let the installation be carried out by an authorized dealer !

Procedure:

- If the LED Wash Ultra Bright RGB is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the LED Wash Ultra Bright RGB, with the mounting-bracket, to the trussing system.
- The LED Wash Ultra Bright RGB must never be fixed swinging freely in the room.
- The installation must always be secured with a safety attachment, e.g. an appropriate safety net or safety-cable.
- When rigging, derigging or servicing the LED Wash Ultra Bright RGB, always make sure, that the area below the installation place is blocked and staying in the area is forbidden.

Improper installation can cause serious damage to people and property !

Connection with the mains

Connect the device to the mains with the power-plug.
Always pay attention, that the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	FASE
N	BLUE	BLACK	SILVER	NUL
⏚	YELLOW/GREEN	GREEN	GREEN	EARTH

Make sure that the device is always connected properly to the earth!

Description of the device

Features

The LED Wash Ultra Bright RGB is a LED system from Showtec.

- Ultra bright LED
- 252X High Power LED's (52x Red, 116x green and 84x Blue)
- Reflected beam angle 18°
- LED Lifetime 100.000 hours
- Colour mixing system RGB
- Protocol DMX512
- 4 DMX channels
- Standalone, Master-slave, Music-controlled
- DMX Connection XLR 3-pins
- Aluminium with black finish
- Internal microphone
- Including 100cm power cable including power plug
- Transmit cooling
- Unlimited colors
- Low power consumption
- No Ultra Violet
- Adjustable hanging brackets included
- Maximum ambient temperature +50 degrees

NOTE: Knowledge of DMX is required to fully utilize this unit.

Overview

Fig. 1

Backside

Fig. 2

1) Earth
2) Power Cable
3) Fuse 0,5A
4) 3-pin DMX signal connector (IN)
5) 3-pin DMX signal connector (OUT)
6) Dip Switches

Installation

Remove all packing materials from the LED Wash Ultra Bright RGB. Check that all foam and plastic padding is removed. Connect all cables.
Always disconnect from electric mains power supply before cleaning or servicing.
Damages caused by non-observance are not subject to warranty.

Set Up and Operation

Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 230V power, or vice versa.
Note : Link all cables before connecting electric power.

One LED Wash Ultra (Stand-alone)

1. Fasten the LED Wash onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
2. Plug the cord into a proper electric power supply socket.

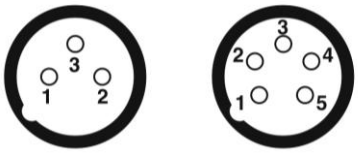
MODE	DMX DIPSWITCH CHART										FUNCTION
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	
Auto Mode	---	---	---	---	---	---	---	---	---	---	Color changing and color fading
Sound Active	---	---	---	---	---	---	---	---	ON	---	Color changing via sound-ctivation
DMX	Set DMX ADDRESS									ON	CH1→Dim,Flash,CH2→R,CH3→G,CH4→B
Slave Mode	ON	---	---	---	---	---	---	---	---	ON	Slave Mode
Black Out	---	---	---	---	---	---	---	---	---	ON	Black out

Multiple LED Wash Ultra (DMX Control)

1. Fasten the effect light onto firm trussing (Use a 30-kg rated or stronger C-clamp bolted onto the Showtec LED Wash bracket). Leave at least 0,5 meter on all sides for air circulation.

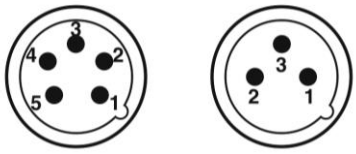
2. Use a 3-p XLR cable to connect the LED Wash's and other devices.

DMX-OUTPUT (Female)
XLR mounting-socket:



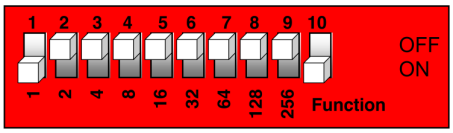
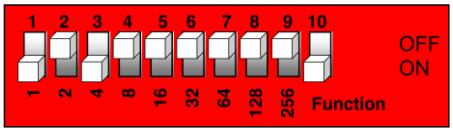
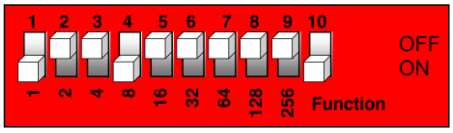
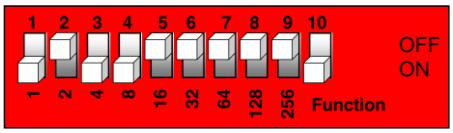
1 - Ground
2 - Signal (-)
3 - Signal (+)
4 - Free
5 - Free

DMX-input (Male)
XLR mounting-plug



3. Link the units as shown in (figure 4), Connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the second, third, and fourth units.

4. Set DMX dip switches as follows (See Dip Switch setting page 8).

LED Wash Ultra	Address Value	DMX Dip Switches "ON"
Unit 1	1	
Unit 2	5	
Unit 3	9	
Unit 4	13	

5. Supply electric power: Plug the end of the mains power cord into proper electric power supply sockets. Do so for all units and the controller.

Multiple LED Wash Ultra Set Up

DMX-Set up

Master/Slave Set up

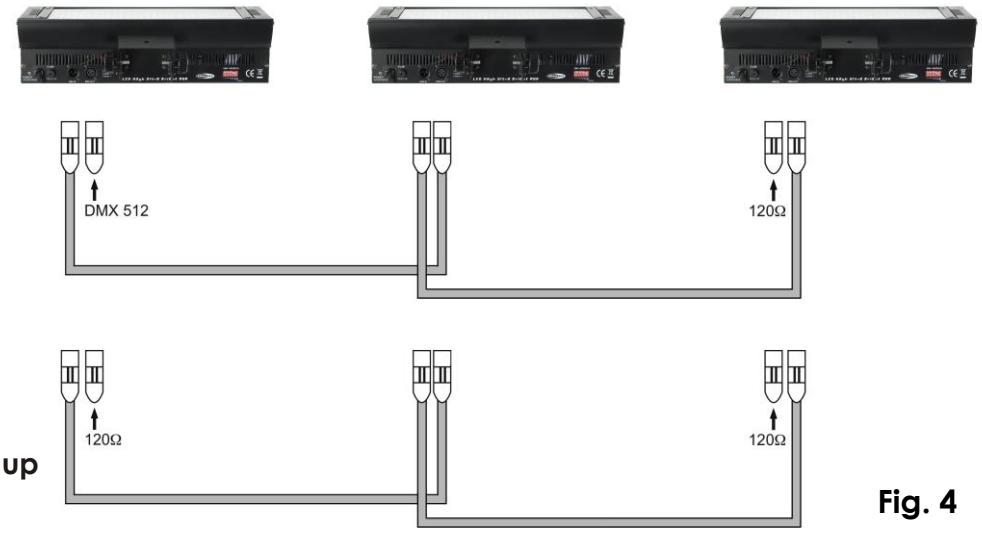


Fig. 4

Note : Link all DMX cables and set dip switches before connecting electric power

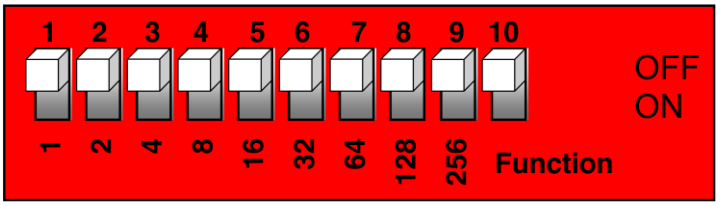
6. Do not supply power before the whole system is set up and connected properly.
Design your show according to your DMX controller functions. After every new dipswitch setting you have to disconnect the power, and then turn the power on to activate the new dipswitch setting.

FUNCTIONS:

There are 4 options for using the LED Wash Ultra Bright RGB: Stand-alone
Music-controlled
Master / Slave
DMX Mode

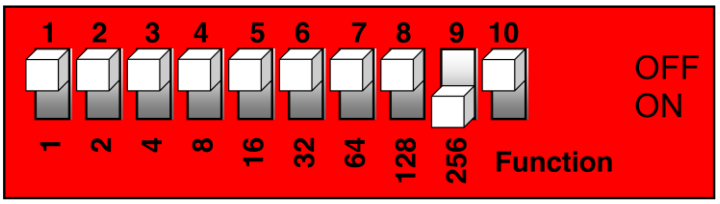
1. Stand-alone / Master

In Stand-alone mode, set all dipswitches to OFF.



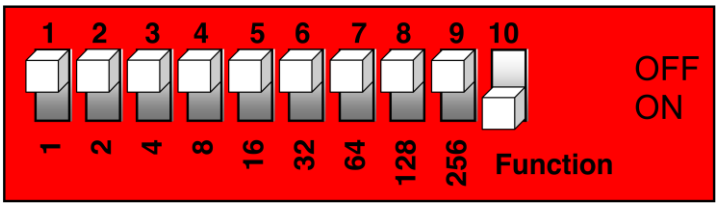
2. Sound-controlled

In Stand-alone mode, set dipswitch #9 to ON and all other dipswitches to OFF. The LED Wash Ultra will automatically change its color to the beat of the music.
With the Audio Sensitivity control you can adjust its music-sensitivity.



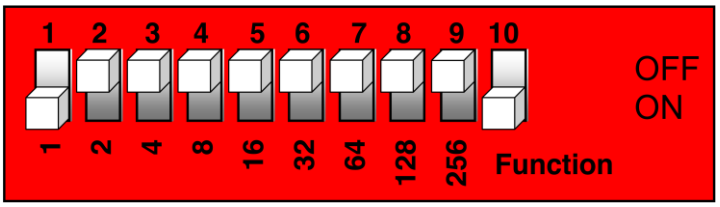
3. Master / Slave Mode

In Stand-alone mode, set dipswitch #1 and #10 to ON and all other dipswitches to OFF. The LED Wash Ultra will function as a slave device.
Note : When one of the other Dipswitches (#1- #9) is set to ON, the device is in DMX Mode.
When only dipswitch #10 is set to ON , the device is in black out.



4. DMX Mode

When dipswitch #10 is turned ON, the LED Wash Ultra is in DMX Mode ; Dipswitches #1 - #9 control the DMX Addresses.



In DMX Mode , CH1 → Dimmer, CH2 → Red, CH3 → Green, CH4 → Blue (See P. 11)

DMX Dipswitch Settings

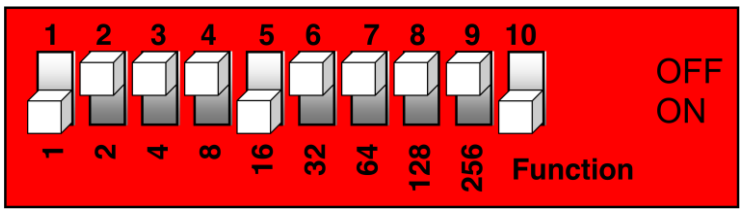
DMX products must have their own "address" to receive DMX signals. Addresses on the controller are set by flipping the appropriate DMX dipswitches.
You need to know that DMX address settings are the sum of the dip switch values.

A standard DMX address for a Showtec LED Wash Ultra, which has 4 channels is as follow:

Example

LED Aircone	**Address Value**	**DMX Dip Switches "ON"**
Unit 5	17	#1, #5

Switch	Value
#1	1
#5	16 +
Total sum	17



Explanation: Since each unit has 4 channels, each address advances 6 values (See Address Value above).
Once address values are determined, add DMX dipswitch values to obtain the appropriate address (DMX Dip Switches "ON") for each unit. Flip appropriate DMX dipswitches on each unit.

Example:

1. If you want to give an LED Wash Ultra DMX address133, you first have to find the number 133 in the DMX Chart.
2. Then look at the left side (Dip Switches #1-#5) horizontally from 133.
   In the Table you'll see #1=ON, #2=OFF, #3=ON, #4=OFF, #5=OFF.
3. Finally look at the upper side of the table (Dip Switches #6-#9) vertically from 133.
   In the Table you'll see #6=OFF, #7=OFF, #8=ON, #9=OFF.

DMX Address Quick Reference Chart

DMX DIP SWITCH SET 0=OFF 1=ON					
#9	0	0	0	0	0	0
#8	0	0	0	0	1	1
#7	0	0	1	1	0	0
#6	0	1	0	1	0	1

#1	#2	#3	#4	#5
0	0	0	0	0
1	0	0	0	0
0	1	0	0	0
1	1	0	0	0
0	0	1	0	0
1	0	1	0	0
0	1	1	0	0

	32	64	96	128	160
1	33	65	97	129	161
2	34	66	98	130	162
3	35	67	99	131	163
4	36	68	100	132	164
5	37	69	101	133	165
6	38	70	102	134	166

DMX Address Quick Reference Chart

Dip Switch Positior

DMX DIP SWITCH SET 0=OFF 1=ON																				
					#9	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
					#8	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
					#7	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
					#6	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
#1	#2	#3	#4	#5																	
0	0	0	0	0			32	64	96	128	160	192	224	256	288	320	352	384	416	448	480
1	0	0	0	0		1	33	65	97	129	161	193	225	257	289	321	353	385	417	449	481
0	1	0	0	0		2	34	66	98	130	162	194	226	258	290	322	354	386	418	450	482
1	1	0	0	0		3	35	67	99	131	163	195	227	259	291	323	355	387	419	451	483
0	0	1	0	0		4	36	68	100	132	164	196	228	260	292	324	356	388	420	452	484
1	0	1	0	0		5	37	69	101	133	165	197	229	261	293	325	357	389	421	453	485
0	1	1	0	0		6	38	70	102	134	166	198	230	262	294	326	358	390	422	454	486
1	1	1	0	0		7	39	71	103	135	167	199	231	263	295	327	359	391	423	455	487
0	0	0	1	0		8	40	72	104	136	168	200	232	264	296	328	360	392	424	456	488
1	0	0	1	0		9	41	73	105	137	169	201	233	265	297	329	361	393	425	457	489
0	1	0	1	0		10	42	74	106	138	170	202	234	266	298	330	362	394	426	458	490
1	1	0	1	0		11	43	75	107	139	171	203	235	267	299	331	363	395	427	459	491
0	0	1	1	0		12	44	76	108	140	172	204	236	268	300	332	364	396	428	460	492
1	0	1	1	0		13	45	77	109	141	173	205	237	269	301	333	365	397	429	461	493
0	1	1	1	0		14	46	78	110	142	174	206	238	270	302	334	366	398	430	462	494
1	1	1	1	0		15	47	79	111	143	175	207	239	271	303	335	367	399	431	463	495
0	0	0	0	1		16	48	80	112	144	176	208	240	272	304	336	368	400	432	464	496
1	0	0	0	1		17	49	81	113	145	177	209	241	273	305	337	369	401	433	465	497
0	1	0	0	1		18	50	82	114	146	178	210	242	274	306	338	370	402	434	466	498
1	1	0	0	1		19	51	83	115	147	179	211	243	275	307	339	371	403	435	467	499
0	0	1	0	1		20	52	84	116	148	180	212	244	276	308	340	372	404	436	468	500
1	0	1	0	1		21	53	85	117	149	181	213	245	277	309	341	373	405	437	469	501
0	1	1	0	1		22	54	86	118	150	182	214	246	278	310	342	374	406	438	470	502
1	1	1	0	1		23	55	87	119	151	183	215	247	279	311	343	375	407	439	471	503
0	0	0	1	1		24	56	88	120	152	184	216	248	280	312	344	376	408	440	472	504
1	0	0	1	1		25	57	89	121	153	185	217	249	281	313	345	377	409	441	473	505
0	1	0	1	1		26	58	90	122	154	186	218	250	282	314	346	378	410	442	474	506
1	1	0	1	1		27	59	91	123	155	187	219	251	283	315	347	379	411	443	475	507
0	0	1	1	1		28	60	92	124	156	188	220	252	284	316	348	380	412	444	476	508
1	0	1	1	1		29	61	93	125	157	189	221	253	285	317	349	381	413	445	477	509
0	1	1	1	1		30	62	94	126	158	190	222	254	286	318	350	382	414	446	478	510
1	1	1	1	1		31	63	95	127	159	191	223	255	287	319	351	383	415	447	479	511

Dip Switch Position **DMX Address**

DMX Channels

Channel 1 – Dimmer / Strobe / Sound controlled

0-189	Dimmer, from closed to open (0-100%)
190-250	Strobe 1-20 Hz
251-255	Sound-controlled

Channel 2 – Red

0-255	Gradual color brightness from 0 to 100%

Channel 3 – Green

0-255	Gradual color brightness from 0 to 100%

Channel 4 – Blue

0-255	Gradual color brightness from 0 to 100%

Maintenance

The LED Wash Ultra Bright RGB requires almost no maintenance. However, you should keep the unit clean. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid.
Keep connections clean. Disconnect electric power, and then wipe the connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

Replacing a Fuse
Power surges, short-circuit or inappropriate electrical power supply may cause a fuse to burn out. If the fuse burns out, the product will not function whatsoever. If this happens, follow the directions below to do so.

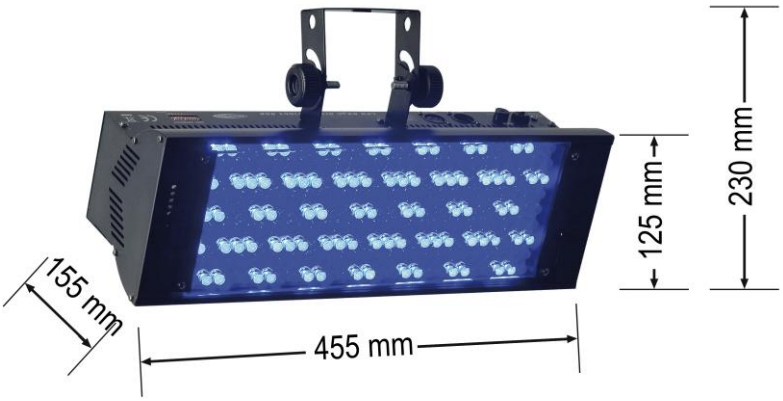
1. Unplug the unit from electric power source.
2. Insert a screwdriver into the slot in the fuse cover. Turn the screwdriver to the left, at the same time gently push a bit (Turn and Push). The fuse will come out.
3. Remove the broken fuse. If brown or unclear, it is burned out.
4. Insert the replacement fuse into the holder where the old fuse was. Reinsert the fuse cover. Be sure to use a fuse of the same type and specification. See the product specification label for details.

Troubleshooting

Showtec LED Wash Ultra Bright RGB
This troubleshooting guide is meant to help solve simple problems.
If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.
If the light effect does not operate properly, refer servicing to a technician.

1. If the device does not operate properly, unplug the device.
2. Check the fuse, power from the wall, all cables etc.
3. If all of the above appears to be O.K., plug the unit in again.
4. If you are unable to determine the cause of the problem, do not open the LED Wash Ultra Bright RGB, as this may damage the unit and the warranty will become void.
5. Return the device to your Showtec dealer.

Product Specification



Model: Showtec LED Wash Ultra Bright RGB
Power; 34W
Power Supply 230V Ac/50Hz
Fuse: 0,5A
252 LEDs (52 Red, 116 Green, 84 Blue)
Beam angle: 18°
LED Lifetime: 100.000 hours
Colour mixing system RGB
Protocol DMX512: 4 Channels
Standalone, Master-slave, Music controlled
DMX Connection XLR 3-pins
Aluminium with black finish
Internal microphone
Including 100cm power cable including power plug
Transmit cooling
Ambient temperature 0°C/40°C
Dimensions: 455 x 155 x 125 mm (LxWxH)
Weight 3.86 Kg

Design and product specifications are subject to change without prior notice.

CE

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Email: service@highlite.nl

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